REPLY
TECHNOLOGY

WL31
WL31TG

Bidirectional wireless system

User's manual

CE 0681 ⊘

ELKRON

IS0244-AA

CONTENTS

1.0 DESCRIPTION OF THE CENTRAL UNIT KEYBOARD

The keyboard is the interface between you and your protection system. Its main use is to control the total or partial activation and deactivation of your alarm system, and to visualize its status on the display through a relating ICON.
A series of ICONS spontaneously turn on to signal the events that happen within the system. Some of the most relevant events are the recording of an alarm, of a failure due to a dead battery or of an attempted sabotage on the external siren.
Through the keyboard it is also possible to access a simple menu with "clear" messages, which will enable you to carry out some simple operations.

Twilight sensor	
Failure presence LED	
Function keys	
	Alarm presence LED
	Menu keys
	Alphanumeric keys
	MENU ACCESS key
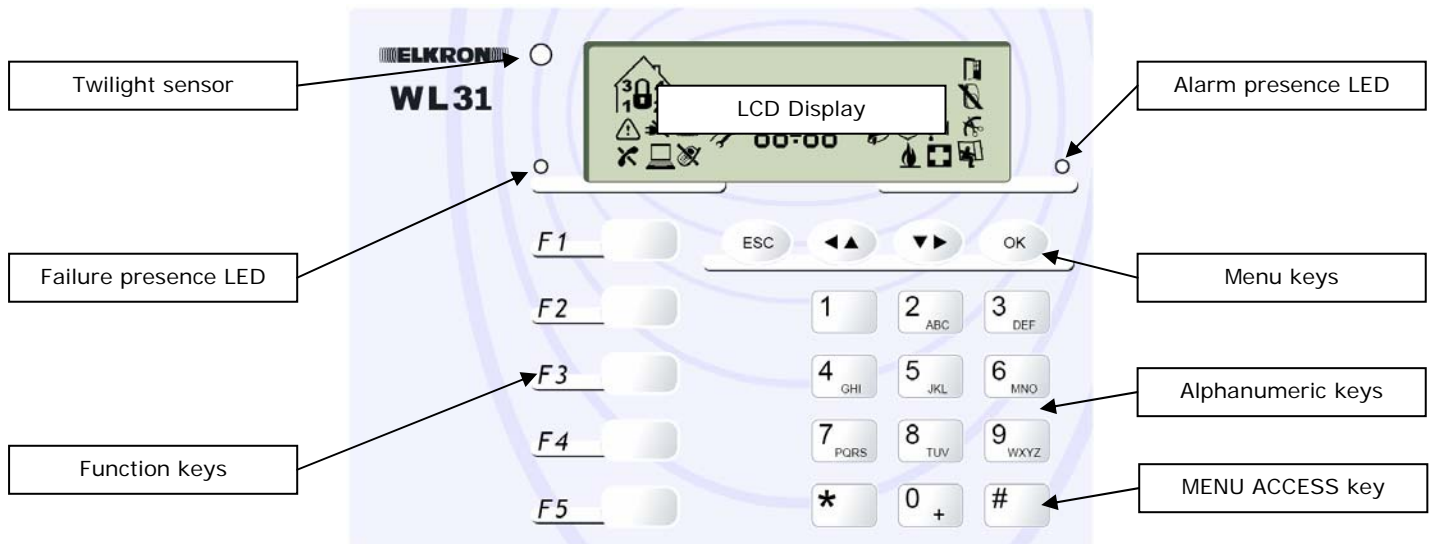
Alphanumeric keys	These enable you to input characters and numbers and to access to the different menu items.
Menu keys	These enable the surfing of the menu. **ESC**: this goes up by one level in the menu tree. this moves to the following menu item. this goes back to the previous menu item. **OK**: this moves to the sub-menu or confirm the displayed choice.
Failure presence LED	This signals the presence of damage in the system.
Alarm presence LED	This signals the presence of active events or the presence of alarm signalling in the central unit memory.
Twilight sensor	This detects the level of environmental light and, if there is enough light, it excludes the keyboard backlight. This is useful to reduce consumption and extend the batteries' life.
LCD Display	This shows using icons the system status, the programmed functions, the date and the time. It also shows the central unit messages during the system programming.
Function keys	These are programmable keys for a fast execution of the commands or alarms. It is possible to personalize the keys with coloured labels, in order to make the choice of the associated command more evident and comfortable.

1.1 FUNCTION KEYS PERSONALIZING LABELS

	Deactivation			Service
	Activation			Fire alarm
	Toggle (status commutation)			Panic alarm
	NOT USED			Emergency

SYSTEM UNDER MAINTENANCE SIGNALLING
This is on to signal access to the "Maintenance menu". The Damage LED switches on.

FAILURE ALARM MEMORY
This is on to memorize a failure condition. The failure LED switches on.

INPUT EXCLUDED SIGNALLING
This is on to signal that a sensor has been excluded.

OPEN INPUT SIGNALLING
This is on to signal that a sensor is open (INPUT).

PANIC ALARM MEMORY
This is on to signal an alarm of the "panic with sirens" type. The Alarm's LED switches on.

TIME CONTROL ENABLES SIGNALLING
This is on to signal that the automatic controls are enabled. It flashes during a control activation warning time.

TECHNOLOGIC ALARM MEMORY
This is on to memorize an alarm of the "technologic" type. The Alarm LED switches on.

FIRE ALARM MEMORY
This is on to memorize an alarm of the "fire" type. The Alarm LED switches on.

EMERGENCY ALARM MEMORY
This is on to memorize an alarm of the "emergency" type. The Alarm LED switches on.

INTRUSION ALARM MEMORY
This is on to memorize an alarm of the "INTRUSION" type. The Alarm LED switches on.

DAMAGING ALARM MEMORY
This is on to memorize an alarm of the "damaging" type. The Alarm LED switches on.

ELECTRIC NETWORK PRESENCE SIGNALLING
This is always on in the presence of a PS30 power pack and of a 230Vac network.

NETWORK MISSING SIGNALLING or ALARM
This is on (if the PS30 power pack is present) to signal the absence of a 230Vac network. If the absence exceeds the programmed time an alarm is generated (network missing) and the Damage LED switches on.

PSTN TELEPHONE LINE PLUG SIGNALLING (WL31TG edition)
This is on to signal the use of the telephone line during tests.

MEMORY FOR PSTN TELEPHONE LINE MISSING ALARM (edition WL31TG)
This is on to signal and record the absence of the PSTN telephone line. The Damage LED switches on

GSM PHONE LINE PLUG SIGNALLING (edition WL31TG and IMG30)
This is on to signal that the line is being used during a test.

MEMORY FOR GSM TELEPHONE LINE MISSING ALARM (edition WL31TG+IM30)
This is on to signal and record the absence of the GSM telephone line. The Damage LED switches on

CONNECTION TO LOCAL PC SIGNALLING
This is on to signal that the main board is connected with a PC.

REMOTE MANAGEMENT FROM PSTN LINE MEMORY (edition WL31TG)
This is on to record an in-coming call (on the PSTN line) for a MODEM connection (Fast Link).

The following indications are permanently shown on the display

1.3.1 SYSTEM'S STATUS (FOR EXAMPLE REFERRING TO A SYSTEM WITH FOUR SECTORS)

DEACTIVATED SYSTEM   TOTALLY ACTIVE SYSTEM   SECTORS 1 AND 2 ACTIVE

SECTORS 1, 2, 3 ACTIVE   SECTORS 1 AND 4 ACTIVE   SECTOR 3 ACTIVE

04-07 ◀▥▶ 20:36   DATE / TIME
These are alternatively shown on the display

1.3.2 BATTERIES' STATUS

▥	OK BATTERY SIGNALLING - Always on. It shows the status of the batteries of the whole system.
▮	LOW BATTERY SIGNALLING - One or more of the system's batteries have gone under 30% of their charge.
▯	DEAD BATTERY ALARM - One or more system's batteries are dead (to be replaced within one month). The failure LED switches on.

1.3.3 HOW TO DISPLAY A SIGNAL IN DETAIL

In order to display a signal in detail (when the system is deactivated), do as follows:
- Press the **OK** key: the first (from right to left) icon on the display flashes and the type of signal is shown in a lighter colour.

Using the arrow keys it is possible to display the other existing icons (events), or, by pressing the **OK** key, it is possible to display the list of the devices that generated a signal.

1.3.4 HOW TO DISPLAY AN ALARM MEMORY IN DETAIL

In order to display an alarm memory in detail, do as follows:
- Press the **OK** key: the first (from right to left) icon on the display flashes and the type of signal will be shown in a lighter colour.

Using the arrow keys it is possible to display the other existing icons (alarm memories), or, by pressing the **OK** key, it is possible to display the list of the devices that generated a signal. At the end of the visualization, if the event is not present anymore, the icon will be cancelled (memory reset). The icons which memorize events which depend on the system's status will be automatically cancelled at the next activation.

1.4 FUNCTION KEYS PROGRAMMING

Your technician can program a specific function for each of the 5 function keys.

The following list shows the functions which can be allocated to the function keys.

TOTAL ACTIVATION	This completely activates the system
TOTAL DEACTIVATION	This completely deactivates the system
SECTOR/S ACTIVATION	This activates one or more of the system's sectors (partial activation)
SECTOR/S DEACTIVATION	This deactivates one or more of the system's sectors (partial activation)
TOTAL ACTIVATION/DEACTIVATION (SYSTEM TOGGLE)	This activates/deactivates the system totally
SECTOR ACTIVATION/DEACTIVATION (SECTORS TOGGLE)	This activates/deactivates one or more sectors (partial activation/ deactivation)
SIREN PANIC ALARM	This activates the system sirens (the sound is automatically interrupted after the programmed time)
SILENT PANIC ALARM	The telephone transmittor sends a telephone call to the programmed number (WL31TG only)
EMERGENCY ALARM	The telephone transmittor sends a telephone call to the programmed number (WL31TG only)
SERVICE COMMAND	Using this command it is possible to manage, for example, the opening of an automatic gate or the opening of a horizontally pivoted garage door

The five function keys (F1…F5) can be personalized using the specific labels which should be positioned under the supplied transparent keys cover.
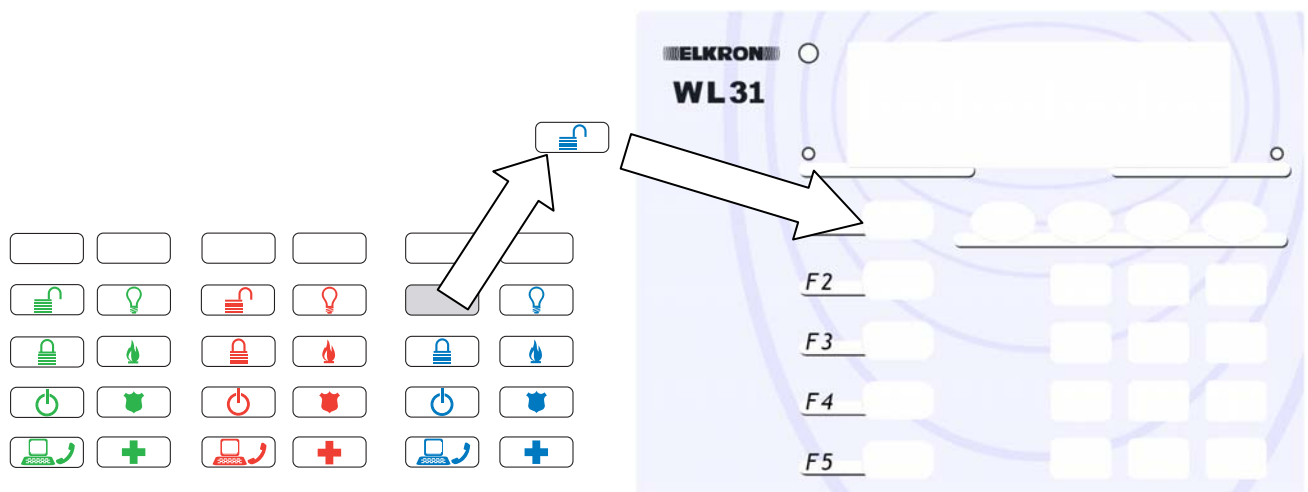
2.0 DESCRIPTION OF THE REMOTE KEYBOARD

The remote keyboard carries out similar functions to the main one. Its main use is to control the total or partial activation and deactivation of your alarm system, displaying its status through a series of LEDs.

Alphanumeric keys	These enable you to input the secret code required to access the system's functions.
Function keys	These have been programmed for fast commands or alarm executions. It is possible to personalize these keys with coloured labels, in order to make the choice of the associated control more evident and comfortable.
Generic signalling LED (recapitulation)	This is on in a GREEN colour when information is being transmitted/received from the central unit; This is on in a RED colour when alarms and failures are being recorded. Blinking GREEN = communication running
Specific signalling LEDs	OPEN INPUT SIGNALLING — This is on to signal that a perimeter detector is open.
	INPUT EXCLUDED SIGNALLING — This is on to signal that a detector has been excluded.
	INTERFERENCE ALARM MEMORY — This is on to memorize an alarm of the "interference" type.
	ALARMS MEMORY — This is on to memorize an alarm.
	SYSTEM IN MAINTENACE SIGNALLING — This is on to signal the access to the "Maintenance" menu.
	FAILURE ALARM MEMORY — This is on to memorize a failure condition.
Twilight sensor	This detects the level of environmental light and, if there is enough light, it excludes the keyboard backlight. This is useful to reduce consumption and extend the batteries' life.
System Status LEDs	These show the system status. LED on in a GREEN colour = DEACTIVATED SECTOR LED on in a RED colour = ACTIVATED SECTOR

2.1 PROGRAMMABILITY OF THE REMOTE KEYBOARD FUNCTION KEYS

Your technician can program a specific function for each of the 5 function keys.

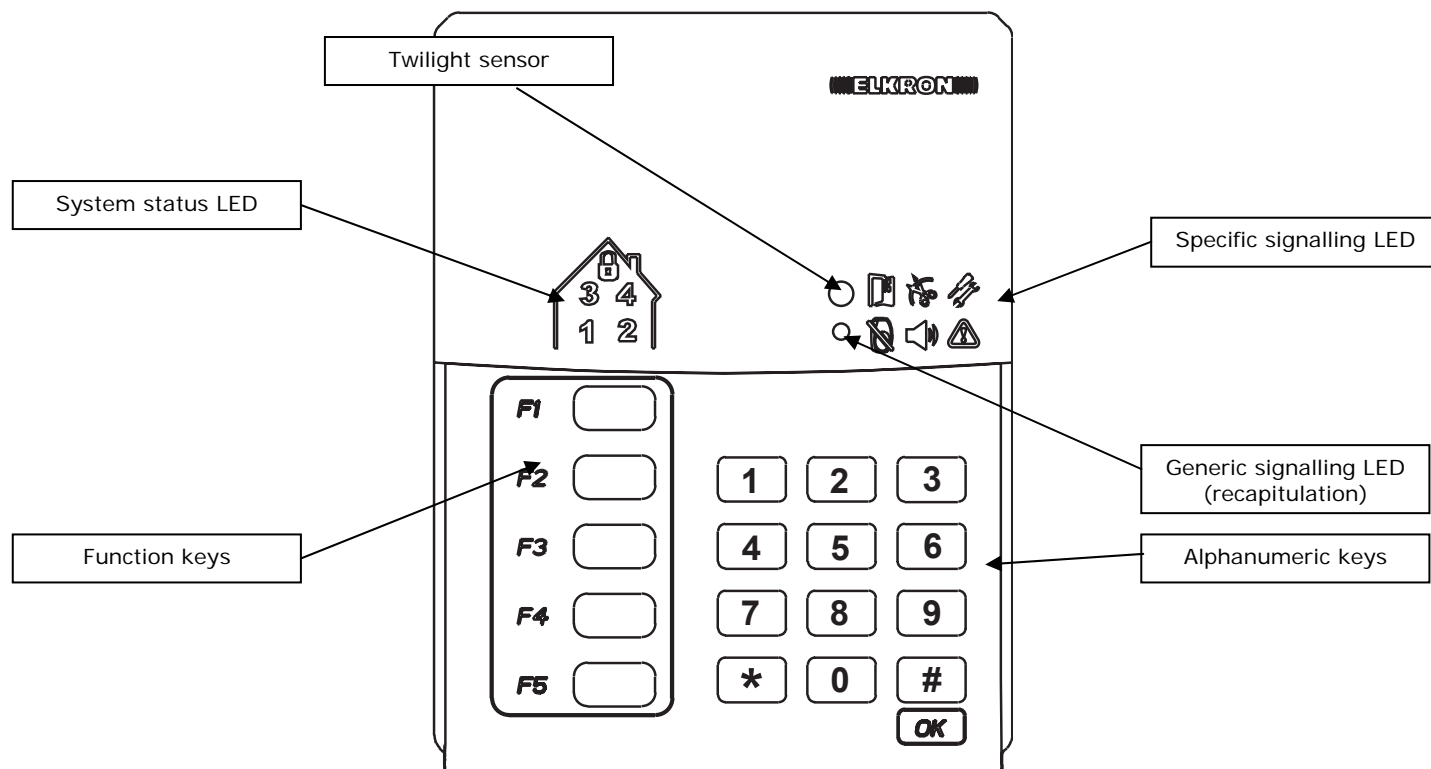The following list shows the functions which can be allocated to the function keys.

TOTAL ACTIVATION	This completely activates the system
TOTAL DEACTIVATION	This completely deactivates the system
SECTOR/S ACTIVATION	This activates one or more of the system's sectors (partial activation)
SECTOR/S DEACTIVATION	This deactivates one or more of the system's sectors (partial activation)
TOTAL ACTIVATION/DEACTIVATION (SYSTEM TOGGLE)	This activates/deactivates the system totally
SECTOR ACTIVATION/DEACTIVATION (SECTORS TOGGLE)	This activates/deactivates one or more sectors (partial activation/deactivation)
SIREN PANIC ALARM	This activates the system sirens (the sound is automatically interrupted after the programmed time)
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EMERGENCY ALARM	The telephone transmittor sends a telephone call to the programmed number (WL31TG only)
SERVICE COMMAND	Using this command it is possible to manage, for example, the opening of an automatic gate or the opening of a horizontally pivoted garage door.

The five function keys (F1…F5) can be personalized using the specific labels to be positioned under the supplied transparent keys cover.
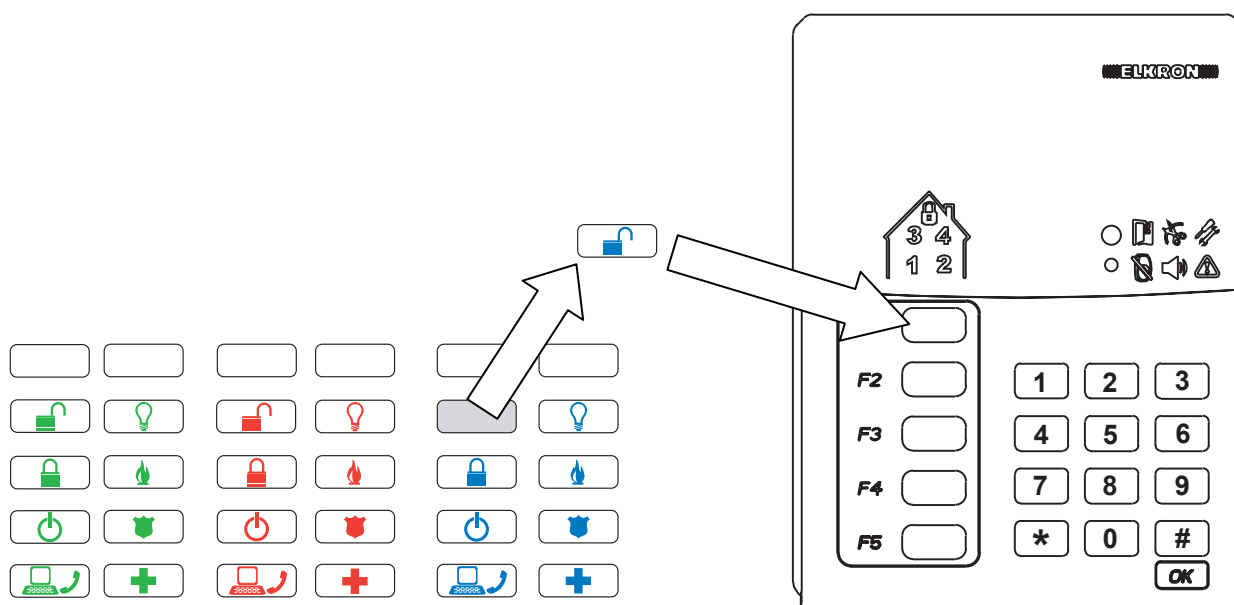
3.0 REMOTE CONTROL DESCRIPTION

The main use of the remote control is to control the total or partial activation and deactivation of your alarm system and to confirm the command activation through the LEDs.

Each key can be programmed so that it sends two different controls depending on the time it is pressed for:

- **CONTROL 1 = 1 SEC. PRESSURE**
- **CONTROL 2 = 5 SEC. PRESSURE**

3.1 MEANING OF THE LEDs

Each LED of the remote control can be lit in two different colours:

LED STATUS	MEANING
FLASHING IN A GREEN COLOUR	A command is being sent to the central unit.
LIT IN A FIXED GREEN COLOUR	Following the command sending, the confirmation is received (response from the central unit) and the sector or output allocated to the key is deactivated.
LIT IN A FIXED RED COLOUR	Following the command sending, the confirmation is received (response from the central unit)
FLASHING IN A GREEN AND RED COLOUR	This type of signalling can be carried out under two different conditions: 1) If the sectors have been programmed as "INPUTING LOCK", the system has not been activated since there are no open inputs; 2) If the sectors have been programmed as "AUTO-EXCLUSION", the system has been activated and the inputs left open have been excluded.
ALL LEDS FLASHING IN A RED COLOUR	Generic failure in a command sending. The operation must be repeated.

3.2 REMOTE CONTROL KEYS FACTORY PROGRAMMING
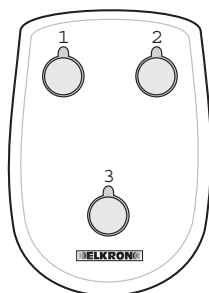
KEY 1	**SHORT PRESSURE: Activation of sector 1** **LONG PRESSURE: Activation of sector 1**
KEY 2	**LONG PRESSURE: Deactivation of sector 1** **SHORT PRESSURE: Deactivation of sector 1**
KEY 3	**SHORT PRESSURE: System status request** **LONG PRESSURE: System status request**
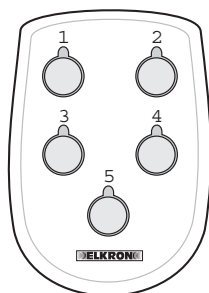
KEY 1	**SHORT PRESSURE: Activation of sector 1** **LONG PRESSURE: Activation of sector 1**
KEY 2	**LONG PRESSURE: Deactivation of sector 1** **SHORT PRESSURE: Deactivation of sector 1**
KEY 3	**LONG PRESSURE: Activation of service exit 1** **SHORT PRESSURE: Activation of service exit 1**
KEY 4	**LONG PRESSURE: Activation of service exit 2** **SHORT PRESSURE: Activation of service exit 2**
KEY 5	**SHORT PRESSURE: System status request** **LONG PRESSURE: System status request**

3.3 FUNCTIONS WHICH CAN BE ALLOCATED TO THE FUNCTION KEYS

Your technician can program a specific function for each of the 5 function keys.

The following list shows the functions which can be allocated to the function keys.

TOTAL ACTIVATION	This completely activates the system
TOTAL DEACTIVATION	This completely deactivates the system
SECTOR/S ACTIVATION	This activates one or more of the system's sectors (partial activation)
SECTOR/S DEACTIVATION	This deactivates one or more of the system's sectors (partial activation)
TOTAL ACTIVATION/DEACTIVATION (SYSTEM TOGGLE)	This activates/deactivates the system totally
SECTOR ACTIVATION/DEACTIVATION (SECTORS TOGGLE)	This activates/deactivates one or more sectors (partial activation/deactivation)
STATUS REQUEST	Supplies on the LED of the remote control information about the status of sectors.
SIREN PANIC ALARM	This activates the system sirens (the sound is automatically interrupted after the programmed time)
SILENT PANIC ALARM	The telephone transmittor sends a telephone call to the programmed number (WL31TG only)
EMERGENCY ALARM	The telephone transmittor sends a telephone call to the programmed number (WL31TG only)
SERVICE COMMAND	Using this command it is possible to manage, for example, the opening of an automatic gate or the opening of a horizontally pivoted garage door.

The remote control keys can be personalized applying some labels which graphically remind you of the function which is allocated to each key.
Open the remote control, remove from the plastic sheet supplied the required label, insert it in its specific location on the cover, as shown by the figure and close the remote control again.
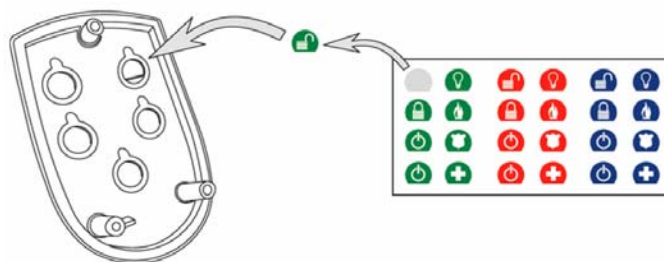
4.0 USING THE SYSTEM

The following is a description of the main operations which can be carried out on the system through the control devices. All the operations of the keyboard function keys and of the remote control keys refer to factory setting and consequently they do not take into account possible personalizations. If functions different from factory ones have been programmed, please refer to the programming recapitulation tables.

4.1 ACTIVATING THE SYSTEM FROM THE CENTRAL UNIT KEYBOARD

It is possible to totally or partially activate the system (in case of division in several sectors). Possible contacts protecting doors and windows, apart from those of the DELAYED type, must be closed before activating the system. For this purpose it is necessary to verify that the icon "OPEN INPUTS" 🚪 is open.

Two methods are available to activate the system from the central unit keyboard:
1 - THROUGH ONE OF THE FUNCTIONS OF THE CASCADING MENU;
2 - THOROUGH THE FUNCTION KEYS.

4.1.1 THROUGH ONE OF THE FUNCTIONS OF THE CASCADING MENU

A = action   R = result

A = dial your secret code (e.g. 111111) and press the OK key to confirm;

R = if the code is recognized as a valid one, the buzzer makes a double beep and the display shows the user to whom the code is allocated:

```
M  -MASTER
```

A = press the # key

R = you are now on the main menu. The available function is ACTIVATION

```
M  -MASTER
ACTIVATION
```

A = press the OK key to confirm:

```
TOTAL
ACTIVATION
```

A = using the ▼► and ◄▲ keys, choose the type of system activation:
total activation or partial activation (one or several system's sectors).
Note: the number of available sectors depends on the division of the system during the configuration phase.

```
ACTIVATION
SETTN-N SECTOR
```

A = press the OK key to confirm your choice.

R = your system has been activated (totally or partially)
(Remember that in the factory setting there is only one sector):

4.1.2 THROUGH THE FUNCTION KEYS

A = dial your secret code (e.g. 111111) and press the OK key to confirm;

R = if the code is recognized as a valid one, the buzzer makes a double beep and the display shows the user to whom the code is allocated.

```
M  -MASTER
```

A = press the F1 key to totally activate the system

R = your system is now totally activated
(Remember that in the factory setting there is only one sector)

4.2 DEACTIVATING THE SYSTEM FROM THE CENTRAL UNIT KEYBOARD

It is possible to deactivate the system totally or partially (if it has been divided into several sectors).

Two methods are available to activate the system from the central unit keyboard:
1 - THROUGH ONE OF THE FUNCTIONS OF THE CASCADING MENU;
2 - THROUGH THE FUNCTION KEYS.

4.2.1 THROUGH ONE OF THE FUNCTIONS OF THE CASCADING MENU

A = action   R = result

A = dial your secret code (e.g. 111111) and press the ⬭OK key to confirm;

R = if the code is recognized as a valid one, the buzzer makes a double beep and the display shows the user to whom the code is allocated:

M   -MASTER

A = press the #️⃣ key

R = you are now on the main menu. The available function is DEACTIVATION

M   -MASTER
DEACTIVATION

A = press the ⬭OK key to confirm:

TOTAL
DEACTIVATION

A = using the ▼▶ and ◀▲ keys, choose the type of system deactivation:
total deactivation or partial deactivation (one or several system's sectors).
Note: the number of available sectors depends on the division of the system during the configuration phase.

DEACTIVATION
SETTN-N SECTOR

A = press the ⬭OK key to confirm your choice.

R = your system has been deactivated (totally or partially)
(Remember that in the factory setting there is only one sector):

4.2.2 THROUGH THE FUNCTION KEYS

A = action   R = result

A = dial your secret code (e.g. 111111) and press the ⬭OK key to confirm;

R = if the code is recognized as a valid one, the buzzer makes a double beep and the display shows the user to whom the code is allocated:

M   -MASTER

A = press the F2 to totally deactivate the system;

R = your system has been totally deactivated
(Remember that in the factory setting there is only one sector):

4.3 ACTIVATING THE SYSTEM FROM A REMOTE KEYBOARD

Possible contacts protecting doors and windows, apart from those of the DELAYED type, must be closed before the system is activated.
It is possible to activate the system totally or partially (if the system has been divided into several sectors).

A = action   R = result

A = digit your secret code (e.g. 111111) and press the "# (OK)" key to confirm;
    Verify that the "OPEN INPUT" LED ▯ is open.

R = if the code is recognized as a valid one, the buzzer makes a double beep and the system status LEDS signal the status of all the sectors (all green = system deactivated)

A = press the F1 key to totally activate the system;

R = Your system is now totally activated
(Remember that in the factory setting there is only one sector):

4.4 DEACTIVATING THE SYSTEM FROM A REMOTE KEYBOARD

It is possible to deactivate the system totally or partially (if the system has been divided into several sectors).

A = action   R = result

A = digit your secret code (e.g. 111111) and press the "# (OK)" key to confirm;

R = if the code is recognized as a valid one, the buzzer makes a double beep and the system status LEDS signal the status of all the sectors (all red = system activated);

A = press the F2 key to totally deactivate the system;

R = Your system is now totally deactivated
(Remember that in the factory setting there is only one sector):
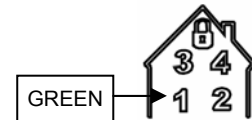
5.0 ACCESS TO THE CENTRAL UNIT MENU

5.1 USED CONVENTIONS

For clarity, the manual adopts the following conventions:

➔ this is to separate the different inputs which are carried out through a keyboard. For example **120 ➔ OK** means "input 120 and then press the OK key".

The terms written in a *larger and italic character* shows that it is necessary to replace the given term with a corresponding value. For example, if the master access code is 01234, **Master Code ➔ OK** means "input 01234 and then press OK".

[nn] shows the fast code from the keyboard for a menu item, where nn is the fast code. For example **[80]** means "fast code 80". It is situated near the menu item.

> this divides the different steps to reach to a menu item, from the first one to the last one. For example **Setting > Language > Select Language** means "choose Setting then Language and finally Select language".

5.2 MENU KEYS FUNCTIONS

The menu keys of the WL31 central unit keyboard (*see Installation and Use Manual*) have the following functions:

ESC	This goes back to the upper level
▼►	This moves to the following item in the menu (in the manual's text it is replaced by ▼ ▸).
◄▲	This goes back to the previous item in the menu (in the manual's text it is replaced by ◂ ▴).
OK	This has several functions: • It confirms the chosen menu item and moves to its sub menu • It terminates and confirm the data inputting from the keyboard • It moves to the following data in a sequence of data to be input

5.3 SYSTEM ACCESS CODE

To manage the WL31 system up to 18 different codes can be used: 1 MASTER, 1 TECHNICIAN, 16 USERS. In this manual, for each menu item, the codes which can access it are shown.
Each code can be freely programmed from a minimum of 4 to a maximum of 6 figures and, depending on its type, it guarantees the access to specific system functions.

MASTER CODE

The MASTER code has the highest authorization level and it is also the only one that can always access the system. The main functions reserved to it are: total or partial activation and deactivation of the alarm system, system access authorisation for the TECHNICIAN and USER codes, system test to periodically verify its proper working, possible exclusion of inputs. Furthermore it can access simple programming, for example telephone number programming if the WL31 central unit is equipped with a communicator.
The pre set MASTER code is 111111. It is advisable to replace it after installation with another one of your choice.

USER CODE

The USER code can access the system after being authorized by the MASTER code. The functions reserved to it are limited to total or partial activation or deactivation of the alarm system and to the test to periodically verify it is working properly.
The preset USER codes vary from 000001 to 000016. It is advisable to replace them after installation with other ones chosen by the user.

5.4 HOW TO ACCESS THE CASCADING MENU

To access the menu it is necessary to digit an access code and to press **OK**, followed by the "**#**" key.

MASTER code ➜ OK ➜ #	**(access to the MASTER MENU)**
USER code ➜ OK ➜ #	**(access to the USER MENU)**

To move to a sub menu press the **OK** key, to scroll up and down the different items at the same level of a menu press the ▼ ▶ and ◀ ▲ keys, to go back up by one level in the menu tree press the **ESC** key.
To exit from all menus press the ESC key many times until the display shows the «(((ELKRON)))» message.

5.5 HOW TO QUICKLY ACCESS A MENU ITEM

In order to quickly access a menu item, when the system is already in the menu, digit *fast code* ➜ OK.

5.6 CENTRAL UNIT MENU
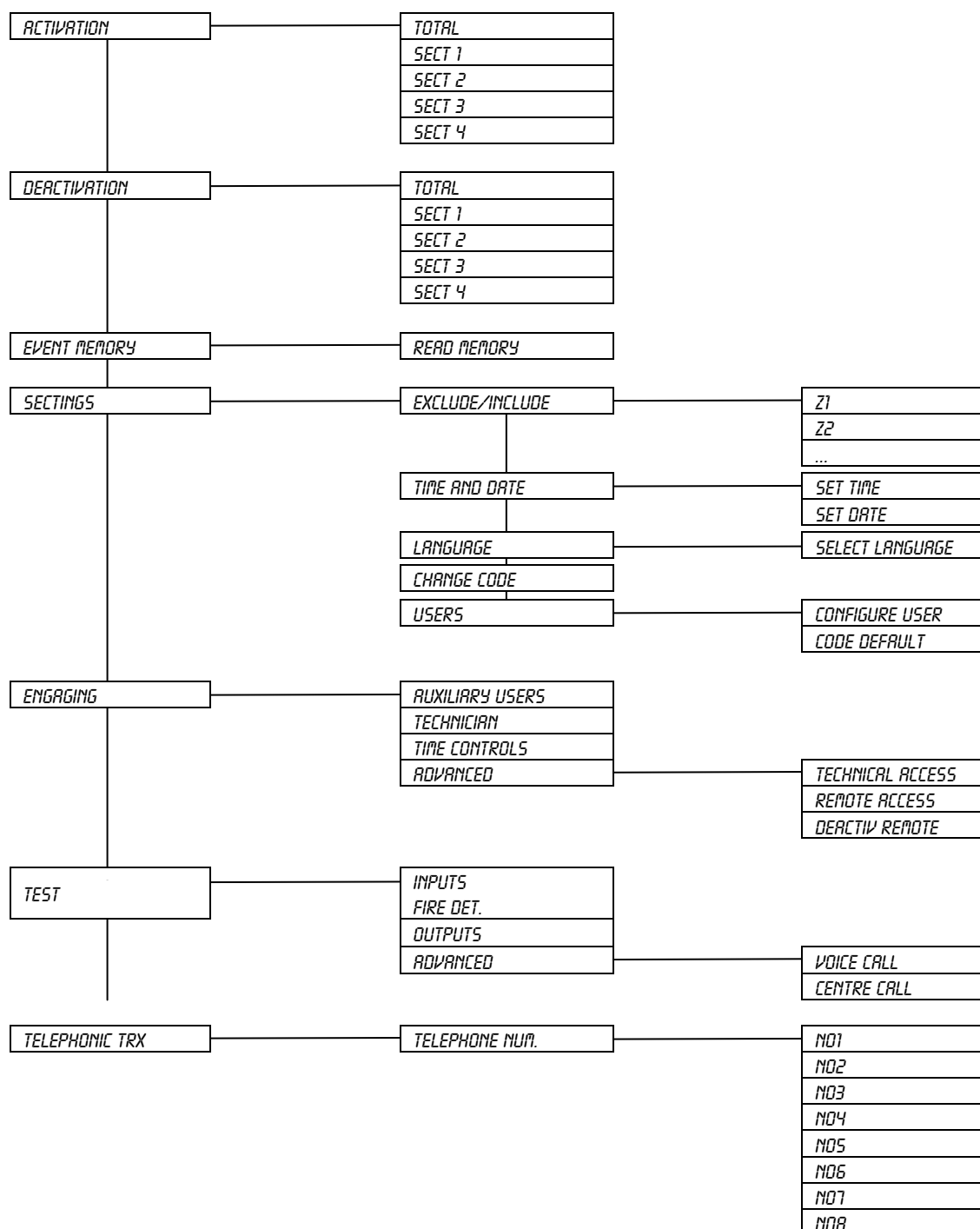
6.0 FUNCTIONS

ACTIVATION

ACTIVATION [0]

Purpose:
This enables the activation of the whole system or of single sectors; the latter option is only available if sectors have previously been configured. The complete system is identified by the «Total» message, the different sectors by the messages «SECT1-*sector*», «SECT2-*sector*», «SECT3-*sector*», «SECT4-*sector*», where *sector* can be the name given to the sector during its configuration or the preset name "Sector", if the sector has not been nominated.

How to do it:
Press the **OK** key and use the ▼ ▶ and ◀ ▲ keys to scroll up and down all the sectors you want to activate. Confirm your choice by pressing the **OK** key.

DEACTIVATION

DEACTIVATION [1]

Purpose:
This enables the deactivation of the whole system or of single sectors; the latter option is only available if sectors have previously been configured.
Warning: the deactivation function is only shown if the system has previously been totally or partially activated. The complete system is identified by the «Total» message, the different sectors by the messages «SECT1-*sector*», «SECT2-*sector*», «SECT3-*sector*», «SECT4-*sector*», where *sector* can be the name given to the sector during its configuration or the preset name "Sector", if the sector has not been nominated.

How to do it:
Press the **OK** key and use the ▼ ▶ and ◀ ▲ keys to scroll up and down all the sectors you want to deactivate. Confirm your choice by pressing the **OK** key.

EVENT MEMORY

EVENT MEMORY [2]

Purpose:
This enables you to look through the last 500 registered events on the WL31 central unit display.
For every event the following is supplied:
- The consecutive number in the list,
- The event time and date
- Other information such as the type of registered event, its source, etc.

Sub-menu	Fast code
Event memory - read memory	20

EVENT MEMORY - READ MEMORY [20]

How to do it:
1. Press the **OK** key to access the last registered event and use the ▼ ▶ and ◀ ▲ keys to scroll up and down the list of the registered events.
2. Press the **OK** key many times to read the detailed information relating to an event.
3. Use the ▼ ▶ and ◀ ▲ keys to go back to the events list.

HOW TO READ THE EVENT MEMORY

When the event memory is entered, it shows a series of detailed information on the registered event. **The symbols ● and ○ show the beginning and the end of each event, for example:**

●001 11:49 07/02 VALID CODE	OK	SOURCE M -MASTER	←	Inputting of valid code

▼▶

●002 11:30 07/02 TAMPER	OK	CENTRAL UNIT SABOTAGE	←	Tamper event beginning (●)

▼▶

○003 12:01 07/02 TAMPER	OK	CENTRAL UNIT SABOTAGE	←	Tamper event end (○)

▼▶

●004 06:10 07/02 SECTORS	OK	ACTIVATION SECT. 1-	OK	SOURCE: CENTRAL UNIT	←	Activation (●) sector 1
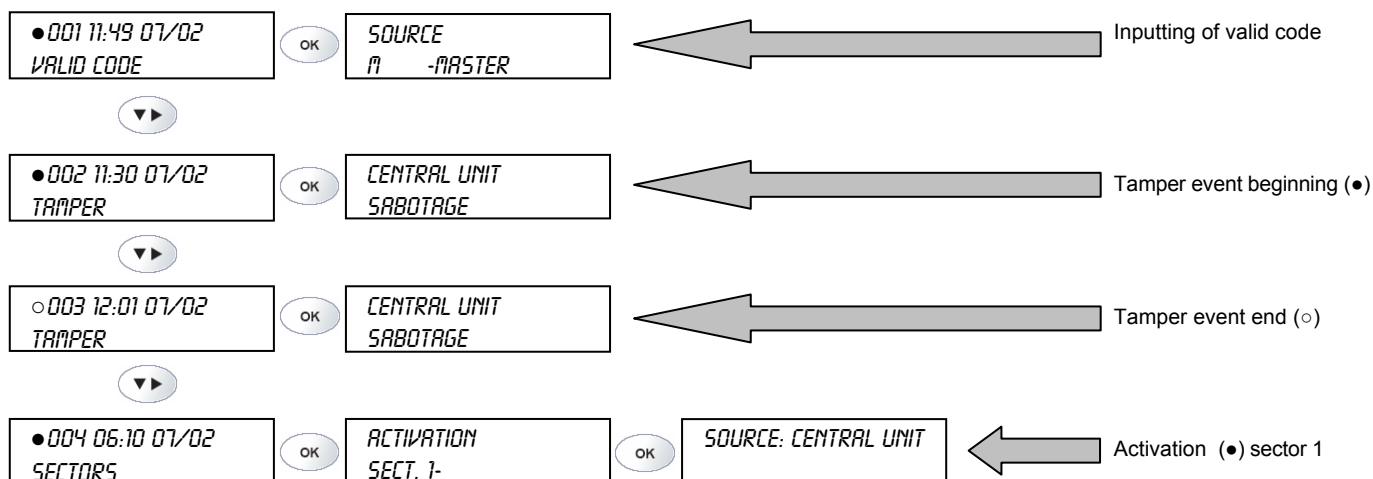
SETTING

SETTINGS [3]

Sub-menu	Fast code
Settings - Exclude / Include	30
Settings - Time and date	31
Settings - Language	32
Settings - Change code	33
Settings - Users	34
Settings - Control delay	35

SETTINGS - EXCLUDE/INCLUDE [30]

Purpose:
This enables the voluntary exclusion, or a new inclusion, of a system input or sensor. The purpose is to avoid that a solicitation of the input or sensor starts the alarm when the system is on. This function can be useful, for example to temporary exclude a damaged sensor.

How to do it:
1. Press **OK** to access the system sensor's and input's list and use the ▼ ▶ and ◀ ▲ to scroll this list. Warning: only the "Excludible" programmed inputs are displayed.
2. Using the **OK** key, select the sensor or input the status of which must be modified. The sensor status is shown as "Included" or "Excluded", depending on the situation.
3. Use the ▼ ▶ key to choose the "Exclude" or the "Include" action depending on the situation. When an INPUT or sensor is excluded, the following icon is shown on the display ⊗ .
4. Confirm using the **OK** key.

SETTINGS - TIME AND DATE [31]

Purpose:
This enables you to set the current day, month and year on the system. These will then be used by the EVENT MEMORY. The information relating to the time and date is constantly shown on the display, in the pre-set format and alternated.

Submenu	Fast code
Time and date - Set time	310
Time and date - Set date	311

TIME AND DATE - SET TIME [310]

How to do it:
OK ➔ *hhmm* ➔ OK, where hh = time (in the 24 hours setting), mm = minutes.

Examples: 0735 for 7.35, 1218 for 12.18, 2247 for 22.47.

TIME AND DATE - SET DATE [311]

How to do it:
OK ➔ *ddmmyy* ➔ OK, where dd = day, mm = month, yy = last two figures of the year.

Examples: 020505 for 2/5/2005, 150706 for 15/7/2006, 301106 for 30/11/2006.

SETTING - LANGUAGE [32]

Purpose:
This enables you to select the language to be used for the display messages.

Sub-menu	Fast code
Language - Select language	320

LANGUAGE - SELECT LANGUAGE [320]

Sub menu	Fast code
SELECT LANGUAGE - ITALIAN	-
SELECT LANGUAGE - ENGLISH	-
SELECT LANGUAGE - FRENCH	-
SELECT LANGUAGE - SPANISH	-
SELECT LANGUAGE - PORTUGUESE	-
SELECT LANGUAGE - GERMAN	-
SELECT LANGUAGE - FINNISH	-
SELECT LANGUAGE - POLISH	-

How to do it:
1. Press the **OK** key and use the ▼ ▶ and ◀ ▲ keys to scroll up and down the different languages of the sub-menu.
2. Confirm your choice by pressing the **OK** key.

SETTING - CHANGE CODE [33]

Purpose:
This enables you to modify the active user's access code; the new code must be formed by a number of figures included between 4 and 6.

How to do it:
1. Press **OK.**
2. Input the new code (*Change code 000000*, where 000000 is the new chosen code) and press **OK**.
3. Input the new code again to verify it (**Code re-inputting *000000***) and press **OK** again.

SETTING - USERS [34]

Purpose:
This enables you to associate the users to the different sectors of the system and to give a specific name to each user.

How to do it:
1. **OK** ➔ **OK**. The user's list is shown. Use the keys ▼ ▶ and ◀ ▲ to scroll up and down it.
2. Select the user you are interested in and press **OK** to confirm.
3. Using the ▼ ▶ and ◀ ▲ keys scroll the «Assoc. sectors» or «Nominate user» sub-menus and confirm by pressing the **OK** key.

5. For «Nominate user» input the new name with the keyboard and confirm it by pressing the **OK** code. The name can have up to 10 characters and it is advisable that it is a descriptive and not a generic one for example JOHN or SECRETARY.
6. For «Assoc. sectors» select all the sectors to which you want to allocate the user's operativity.

SETTINGS - CONTROL DELAY [35]

Purpose:
During the warning time for a control activation (if programmed in the time programmer), this enables to delay or annul the command itself.

How to do to delay:
1. **OK ➔ OK**. The display shows the «Control delay» message; press **OK** to confirm it.
2. Using the ▾ ▸ and ◂ ▴ keys select the required delay and confirm it using the **OK** key.

How to do to annul:
1. **OK ➔ OK**. The display shows the « Control delay» message
2. Using the ▾ ▸ and ◂ ▴ keys, select «Cancel command» and confirm it using the **OK** keys.

ENGAGING

ENGAGING [4]

Purpose:
This enables you to activate/deactivate the system's user, to activate the time programmer management, to set the type of authorization of the technician code and to activate/deactivate the system remote access.

Sub - menu	Fast code
Auxiliary users	40
Technician	41
Time controls (time programmer)	42
Advanced settings	43

ENGAGING - AUXILIARY USERS [40]

Purpose:
This activates/deactivates the system's users, apart from MASTER and TECHNICIAN.

How to do it:
1. Press the **OK key**. The user's list is displayed. Use the ▾ ▸ and ◂ ▴ keys to scroll up and down it.
2. Select the required user and press the **OK** key to confirm.
3. Use the ▾ ▸ and ◂ ▴ keys to select the «Activated» or «Deactivated» function and confirm by pressing the **OK** key.

ENGAGING - TECHNICIAN [41]

Menu> Engages > Engages Technician
Authorization level : **MASTER**

REMARK: This function appears only if the technician code is authorized "temporarily", see menu [430].

Purpose:
Enables the technician code for access to the system.

How to do it:
1. Press the **OK key**.
   Use the ▾ ▸ and ◂ ▴ keys to select the «Enabled» or «Disabled» function and confirm by pressing the **OK** key.

ENGAGING - TIME CONTROLS [42]

Purpose:
This enables and disables the time programmer management.

How to do it:
1. Press the **OK** key.
2. Using the ▾ ▸ and ◂ ▴ keys, select the «Activated» or «Deactivated» function and press the **OK** key to confirm it.

ENGAGING - ADVANCED SETTINGS [43]

Sub-menu	Fast code
Technical access	430
Remote access	431
Deactiv. Remote	432

ADVANCED SETTINGS - TECHNICAL ACCESS [430]

Purpose:
This sets the activation of the technician either as a permanent one or after a preventative authorisation to be given by the MASTER code («Temporary» - pre-set activation).

How to do it:
1. Press the **OK** key.
2. Using the ▼ ▶ and ◀ ▲ keys, select the «Permanent» or «Temporary» function and use the **OK** key to confirm it.

ADVANCED SETTINGS - REMOTE ACCESS [431]

Purpose:
This activates or deactivates the possibility to be connected through a modem (from remote) with the system.

How to do it:
To enable remote access to the system, select "Activated" and then press the **OK** key.

ADVANCED - DEACTIV. REMOTE [432]

Purpose:
In case of modem connection, this enables or disables the possibility to deactivate the system from a remote control.

How to do it:
In order to enable the deactivation of the system form a remote control, select "Activate" and then press the **OK** key.

TEST

TEST [5]

Purpose:
This enables you to easily and sequentially verify the complete system's working, outside normal working conditions and without causing any real alarm generation.

Sub menu	Fast code
Test Inputs	50
Test fire det.	51
Test Outputs	52
Test Advanced	53

TEST - INPUTS [50]

Purpose:
This enables you to verify that the following is correctly working:
- IR30WL and IRA31WL infrared sensors,
- MM30WL magnetic contact sensor (including the relating auxiliary Inputs),
- WL31 central unit wire inputs.

How to do it:
1. Start the test by pressing the **OK** key; the display shows the "test underway…." Message.
2. Afterwards stimulate each input (walk through the area protected by volume sensors, open doors and windows equipped with opening detectors, etc.): the activation of the relating red LED indicates that the alarm has been

transmitted and the switching on of the icon on the WL31 central unit display confirms that it has been correctly received.

3. Once the inputs' stimulation phase is finished, press the **OK** key: the display will show "TEST FAILED", which contains the list of devices programmed as theft that failed to reply.

TEST - FIRE DET. [51]

Purpose:

This enables you to verify that FO31WL smoke optical detectors and MM30WL contacts and control unit auxiliary inputs programmed as fire are correctly working.

How to do it:

4. Start the test by pressing the **OK** key; the display shows the «Test underway…» message.
5. Afterwards stimulate each input (press the smoke detector TEST key for 3 seconds): the activation of the

   relating red LED indicates that the alarm has been transmitted and the switching on of the icon on the WL31 control unit display confirms that it has been correctly received.
6. Once the inputs' stimulation phase is finished, press the **OK** key: the display will show "TEST FAILED", which contains the list of smoke detectors and MM30WL contacts and control unit auxiliary inputs programmed as fire that failed to reply.

OUTPUTS - TEST [52]

Purpose:

This enables you to verify that the following is working correctly:

- HP30WL sirens,
- WL31 central unit internal central,
- WL31 central unit wire outputs.

How to do it:

1. Start the test by pressing the **OK** key. The display shows the first output device.
2. Press **OK** to select it and **OK** again to activate it («Activate»): depending on the situations, the siren sound or the relay signalling will confirm that the device is working correctly.
3. To deactivate the output («Deactivate») press the **OK** key.
4. Press the **ESC** key to go back to the list of the output devices. Select the following device using the ▾ ▸ key and repeat the procedure from item 2.
   Remember to verify all the output devices.

TEST - ADVANCED [53]

Purpose:

This enables you to verify that the communicator correctly sends the voice messages and numeric calls to the alarm reception centre.

How to do it:

1. Start the test by pressing the **OK** key; the display shows the «Advanced -Voice call» message.
2. Press **OK**.
3. Using the keys ▾ ▸ and ◂ ▴, dial one of the phone numbers programmed to send vocal messages and press **OK**. The message is sent to the chosen number twice.
4. Select «Advanced -centre call» and press **OK**.
5. Using the keys ▾ ▸ and ◂ ▴, dial one of the phone numbers programmed to send numeric messages. The message containing the subscription code and the TEST function code will be sent to the chosen number (without activating an alarm signal)

TELEPHONIC TRX

TELEPHONE NUMBERS [90]

Purpose:
This enables the memorization of up to 8 telephone numbers, each made of 28 figures or pauses at maximum, to which the alarm event signalling is sent.
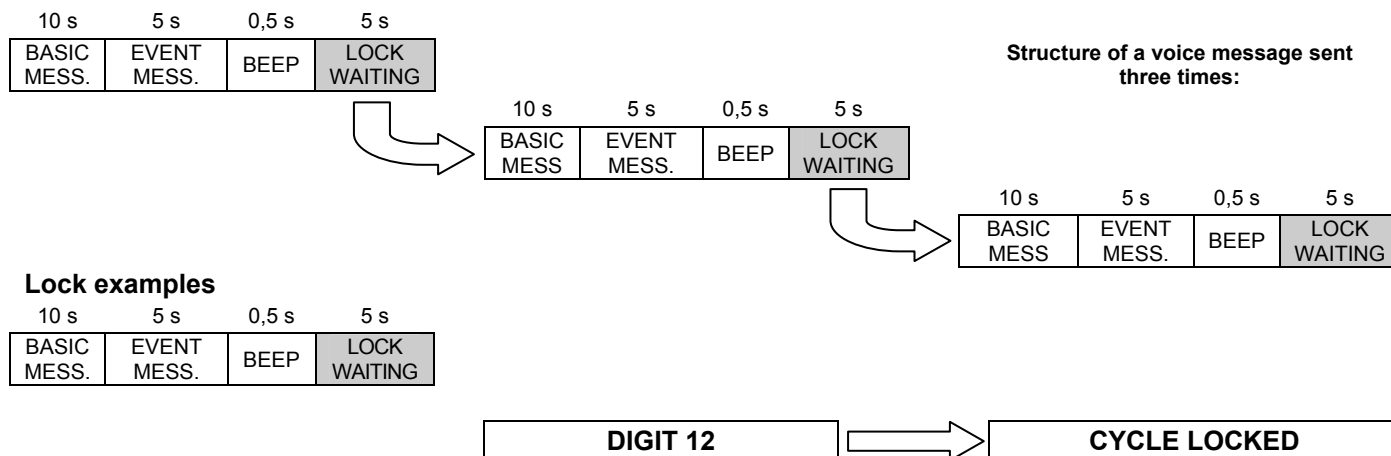
How to do it:
1. Press the **OK** key and use the ▾ ▸ and ◂ ▴ keys to choose the telephone number to be programmed.
2. Confirm your choice by pressing the **OK** key.
3. Insert the new telephone number through the keyboard (to insert the pauses, press the ▾ ▸ key) and confirm with the **OK** key.
NOTE: access by Master code will only enable to display the telephone numbers programmed as Voice.
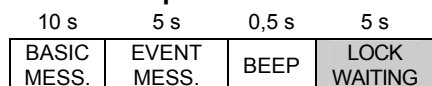
7.0 TELEPHONIC TRX FUNCTIONS

7.1 CALLS CYCLE LOCK

It is possible to lock the calls cycle by inputting the code 12 in the DTMF (defined as "lock code") of the telephone device on which a voice call is being received. The lock is made possible on the calls which send a voice message according to the following method:

Structure of a voice message sent three times:

Lock examples

10 s	5 s	0,5 s	5 s
BASIC MESS.	EVENT MESS.	BEEP	LOCK WAITING

DIGIT 12	⟹	CYCLE LOCKED

If the "lock code" is input, the phone call underway is terminated as well as all the following calls cycle (voice and GSM). It is also possible to carry out the lock of the calls cycle from the keyboard by inputting a valid code (User Code or Technician code, if authorised).
CAUTION: TO ENABLE THE OPERATION OF THE CALL LOCK FUNCTION YOU HAVE TO RECORD ALL THE VOICE MESSAGES.

7.2 FUNCTIONS ALLOCATED TO THE "FUNCTION" KEY OF THE CENTRAL UNIT KEYBOARDS

The remote commutation of the wire outputs U1 and U2 of the central unit is possible, programmed as Service, or activate/deactivate the system by means of controls in DTMF from any telephone. If the central unit is enabled,, it answers to any call entering at any time, except in condition of "alarm to be sent". The user who wants to perform a remote control shall call the number GSM or PSTN of the central unit and wait for an answer. The answer is given after a programmable number of rings (2,4 or 8). The answer is confirmed by the central unit by a "beep-beep".
When the central unit has answered, the following steps are:
1. Insert a valid User's code (4 to 6 figures) followed by the key "#" within 5 sec. At each figure of the code, a shot confirmation sound is given.
2. Insert within 1 min. the numeric codes for commuting of the outputs, or activation/deactivation of the system:
   - 31 = Activation of alarm system
   - 30 = deactivation of alarm system
   - 511 = Activation of cable output 1
   - 510 = Deactivation of cable output 1
   - 521 = Activation of cable output 2
   - 520 = Deactivation of cable output 2

For a detailed description of the confirmation signals of the central unit, see the following table. A longer beep signals an error for:
- programmed output, different as "Service"
- wrong code
- wrong command

The wire outputs of the central unit can be configured as toggle (maintaining their status) or impulsive: if the output is impulsive, upon receiving the command, it shall be activated during 2 sec. and then return to rest condition.

If within 5 sec. from the acknowledgment of the User's code, no codes are sent for the remote commutation, the central unit finishes the call and frees the phone line

⚠	CAUTION: we recommend to disable on SIM card the "Secretary" function supplied by the GSM manager.

EXCLUSION OF THE SECRETARY
On the PSTN line used by the central unit, a Phone Secretary is present, in the central unit you must program a number of rings at the answer that exceeds that of the Secretary.

In this case, to connect you with the central unit:
1. call the phone umber of the PSTN line used
2. wait for the first answer ring
3. close the communication
4. recall the phone number: after the first ring, the central unit answers to the entering call.

7.2.1 REMOTE COMMUTATION

	Commands to be sent to central unit		Signals sent by the central unit	Meaning of the signals
1	Call the PSTN/GSM number		Response tone	Connection carried out
2	Dial the user code (from 4 to 6 figures)	**C O D I C E**	bip-bip 0,5 s bip-bip 0,5 s bip-bip 0,5 s bip-bip 0,5 s bip-bip 0,5 s bip-bip 0,5 s	Code's figure received Code's figure received Code's figure received Code's figure received Code's figure received Code's figure received
3	Press "#"	**#**	bip-bip 0,5 s	Received
4	Send control type: 3: SYSTEM STATUS SWITCHING or 5: OUTPUTS SWITCHING	**3** or **5**	bip-bip 0,5 s	Received
5	In cases of outputs switching, send the code corresponding to the output to be switched: 1: WIRE OUTPUT 1 2: WIRE OUTPUT 2	**1** or **2**	bip-bip 0,5 s	Received
6	Send the control: 1: ACTIVATE 0: DEACTIVATE	**1** or **0**	bip-bip 0,5 s + ASSOCIATED VOICE MESSAGE	command complete
			bip-bip-bip-bip-bip-bip	Error: command not performed

8.0 YOUR SYSTEM

The following are some tables where you will be able to copy the divisions and the allocations of your alarm system as well as the functions of the remote control and keyboard keys.
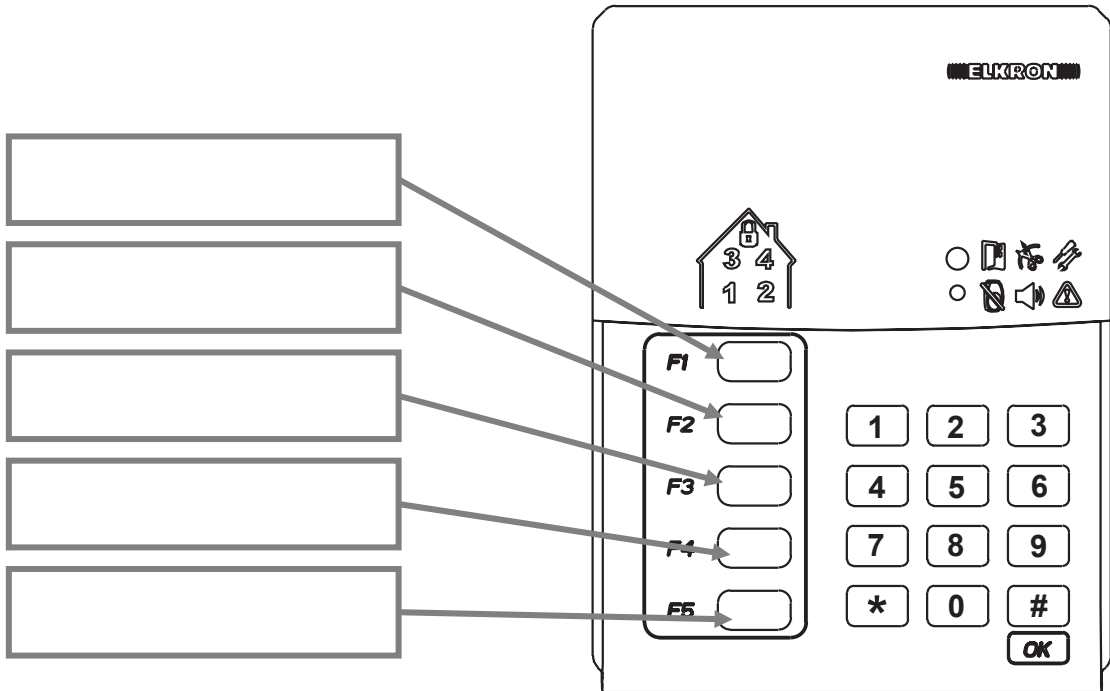
SECTOR 3

SECTOR 4

SECTOR 1

SECTOR 2
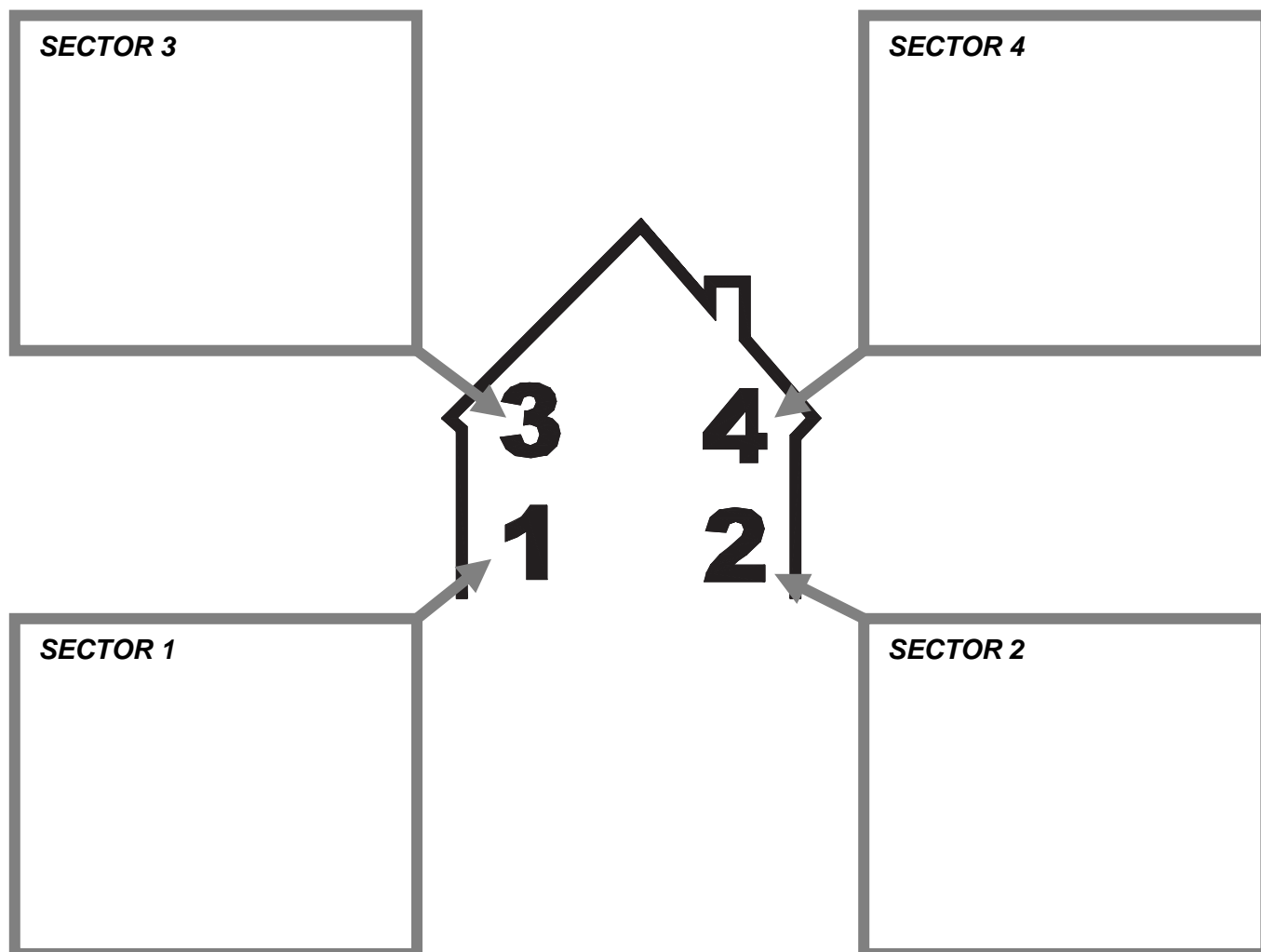
8.1 FUNCTIONS ALLOCATED TO THE "FUNCTION" KEY OF THE CENTRAL UNIT KEYBOARDS
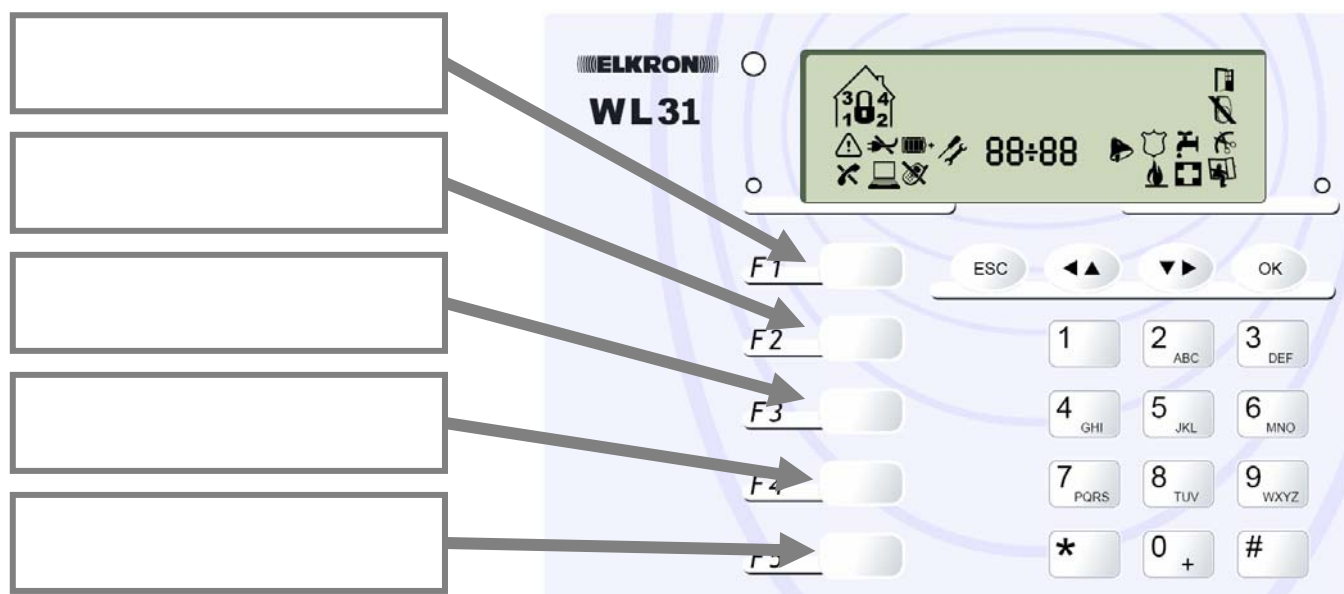
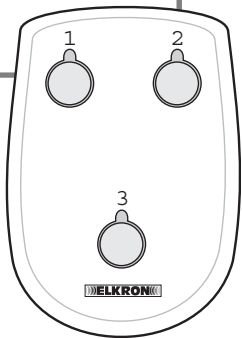**8.2 FUNCTIONS ALLOCATED TO THE "FUNCTION" KEY OF THE REMOTE CONTROLS AND OF THE REMOTE KEYBOARDS**

KEYBOARD N._____ | POSITION_____

REMOTE CONTROL N._____
OWNER_____

SHORT PRESSURE _____
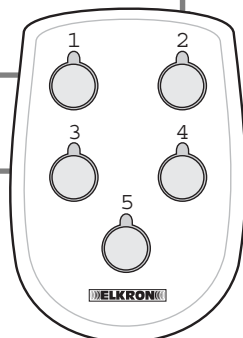LONG PRESSURE _____

SHORT PRESSURE _____
LONG PRESSURE _____

SHORT PRESSURE _____
LONG PRESSURE _____

REMOTE CONTROL N._____
OWNER_____

SHORT PRESSURE _____
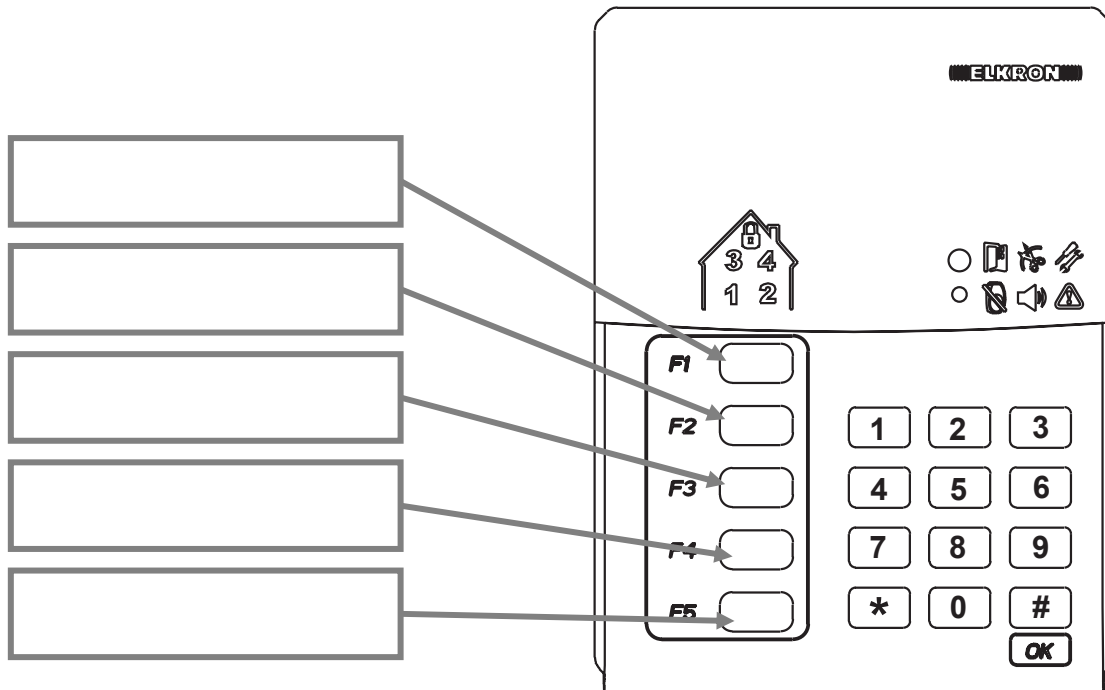LONG PRESSURE _____

SHORT PRESSURE _____
LONG PRESSURE _____

SHORT PRESSURE _____
LONG PRESSURE _____

SHORT PRESSURE _____
LONG PRESSURE _____

SHORT PRESSURE _____
LONG PRESSURE _____

KEYBOARD N._____ | POSITION_____

F1

F2

F3

F4

F5

ELKRON

3 4
1 2

1 2 3
4 5 6
7 8 9
* 0 #
OK

REMOTE CONTROL N._____
OWNER_____

SHORT PRESSURE _____
LONG PRESSURE _____

SHORT PRESSURE _____
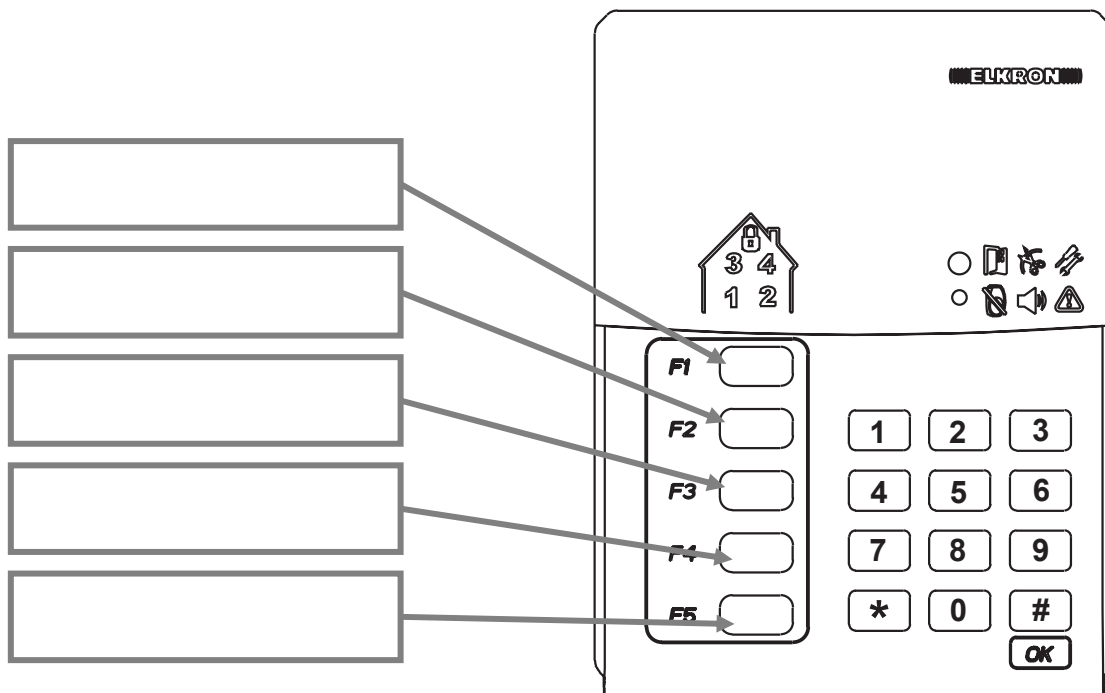LONG PRESSURE _____

1   2

3

ELKRON

SHORT PRESSURE _____
LONG PRESSURE _____

REMOTE CONTROL N._____
OWNER_____

SHORT PRESSURE _____
LONG PRESSURE _____

SHORT PRESSURE _____
LONG PRESSURE _____

1   2

3   4

5

ELKRON

SHORT PRESSURE _____
LONG PRESSURE _____

SHORT PRESSURE _____
LONG PRESSURE _____

SHORT PRESSURE _____
LONG PRESSURE _____

KEYBOARD N.____ | POSITION_____

ELKRON

F1

F2

F3

F4

F5

1	2	3
4	5	6
7	8	9
*	0	#
	OK	

REMOTE CONTROL N.____
OWNER_____

SHORT PRESSURE _____
LONG PRESSURE _____

SHORT PRESSURE _____
LONG PRESSURE _____

1   2

3

ELKRON

SHORT PRESSURE _____
LONG PRESSURE _____

REMOTE CONTROL N.____
OWNER_____

SHORT PRESSURE _____
LONG PRESSURE _____

SHORT PRESSURE _____
LONG PRESSURE _____

1   2

3   4

5

ELKRON

PRESSIONE BREVE _____
LONG PRESSURE _____

PRESSIONE BREVE _____
LONG PRESSURE _____

PRESSIONE BREVE _____
LONG PRESSURE _____

((((((ELKRON)))))

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UNI EN ISO 14001